

REMARKS

Prior to this Amendment, Claims 1-11 were pending in the application. Figures 1 and 2 are objected to as not designating the figures as prior art. Claims 1, 3, and 6 are objected to for informalities. Claims 4, 5, and 8-11 are rejected under 35 U.S.C §112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1, 2, and 6-8 are rejected under 35 U.S.C. §103(a) as being unpatentable over (KR10-2001-9566) in view of U.S. Patent No. 5,949,849 to Hirano et al. and U.S. Patent No. 5,750,011 to Ohmi et al. Claims 3-5 are rejected under 35 U.S.C. §103(a) as being unpatentable over KR-10-2001-9566 in view of Hirano et al., Ohmi et al., and U.S. Patent No. 5,528,652 to Smith et al. Claims 9-11 would be allowable if rewritten or amended to overcome the 35 U.S.C. §112, second paragraph rejections.

As indicated above, the Drawings and Claims 1-7, and 9-11 have been amended. Claim 8 has been cancelled. No new matter has been presented. Claims 1-7 and 9-11 are now pending, with Claims 1 and 9 as independent claims.

Regarding the objection to the drawings, the Examiner states that FIGs. 1 and 2 should be designated as "PRIOR ART", as both FIGs. appear in KR10-2001-9566. (Office Action, page 2). As indicated above, FIGs. 1 and 2 have been replaced with new FIGs. 1 and 2 designated by "REPLACEMENT SHEET" and "PRIOR ART." Accordingly, withdrawal of the objection to the drawings is respectfully requested.

Regarding the objection to Claim 1, the Examiner states that the phrases "that are objects of removal of electrostatic charges", "that worker may not be bombed by radiation," and "and soft x-ray tube with the soft x-ray tube" are considered awkward. As indicated above, Claim 1 has been amended to recite, "a head part neutralizing and

weakening electrostatic charges of bodies, ~~that are objects off~~ for removal of the electrostatic charges from the bodies" and ~~"in order that worker may not be bombed by a user of the electrostatic charge remover is not directly exposed to radiation,"~~ for clarification. Accordingly, withdrawal of the objection to Claim 1 is respectfully requested.

Regarding the objection to Claim 3, the Examiner states that "FET" should be "FETs." As indicated above, Claim 3 has been amended according to the Examiner's recommendation. Accordingly, withdrawal of the objection to Claim 3 is respectfully requested.

Regarding the objection to Claim 6, it is respectfully submitted that the Examiner is incorrect. The Examiner states that "vacuum tubes" should be replaced with "vacuum tube." However, "vacuum tubes" is consistent with paragraph [0086] of the Specification, and the Examiner has not provided a basis for requiring the change, and therefore, the present claim language is proper. Accordingly, withdrawal of the objection to Claim 6 is respectfully requested.

Regarding the §112, second paragraph rejection of Claim 4, the Examiner states that Claim 4 includes several instances of unclear language. (Office Action, page 3). The Examiner further asks how an anode voltage generating part is fed back through a sensor. In response to the Examiner's question, Claim 4 has been amended to recite, "wherein it ~~is characterized in that a~~ voltage from an anode voltage generating part of said power controlling part is fed-back through tube voltage sensor," which is consistent with at least page 17, lines 13-16 of the Specification of the present application. Claim 4 has been further amended for clarity. Accordingly, withdrawal of the §112, second paragraph rejection of Claim 4 is respectfully requested.

Regarding the §112, second paragraph, rejection of Claim 8, the Examiner asserts that Claim 8 does not add any further limitations to Claim 1. As indicated above, Claim 8 has been cancelled. Accordingly, withdrawal of the §112, second paragraph, rejection of Claim 8 is respectfully requested.

Regarding the §112, second paragraph, rejection of Claim 5, the Examiner requests clarification of the last two lines of Claim 5. As indicated above, Claim 5 has been amended to recite, “a part inletting electric wires by insulating the electric wires from high voltage, and fixing a ceramic soft X-ray tube,” which is consistent with at least page 18, lines 1-8 of the Specification of the present application. Accordingly, withdrawal of the §112, second paragraph rejection of Claim 5 is respectfully requested.

Regarding the first §112, second paragraph, rejection of Claim 9, the Examiner asks whether “and ionizing gaseous molecules directly to remove electrostatic charges in inert gases” be positioned after “and ionizing the surrounding gases near the charged body.” (Office Action, page 3). However, the Examiner does not provide any basis for the suggested re-ordering of these phrases, which are not connected by language explicitly indicating a particular sequence. Further, this claim limitation is consistent with at least page 13, line 9 through page 14, line 13 of the Specification of the present application. Therefore, the Examiner has not provided a sufficient basis for a §112, second paragraph, rejection. Accordingly, withdrawal of the §112, second paragraph rejection of Claim 9 is respectfully requested.

Regarding the second §112, second paragraph, rejection of Claim 9, the Examiner asks what efficiency is referred to by “prevents the efficiency from dropping.” As indicated above, Claim 9 has been amended to specify that the efficiency refers to an efficiency of soft X-ray generation. Accordingly, withdrawal of the second §112, second paragraph rejection of Claim 9 is respectfully requested.

Regarding the §112, second paragraph, rejection of Claim 10, the Examiner asks what is meant by, “in case of attaching a filament.” Claim 10 has been amended to recite, “when attaching a filament,” for clarity. Accordingly, withdrawal of the §112, second paragraph rejection of Claim 10 is respectfully requested.

Regarding the second §112, second paragraph, rejection of Claim 11, the Examiner asks how the limitations of Claim 11 relate to a manufacturing method. As indicated above, Claim 11 has been amended to more clearly state that the X-ray tube is manufactured to operate under the conditions set forth in the claim. Accordingly, withdrawal of the §112, second paragraph, rejection of Claim 11 is respectfully requested.

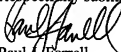
Regarding the §103(a) rejection of Claim 1, this claim is patentable over KR10-2001-9566 in view of Hirano et al. and Ohmi et al. At the very least, KR10-2001-9566, Hirano and Ohmi et al. do not teach, disclose, or suggest, “a soft X-ray tube that is an ion generating tube using thin film of Be evaporated with W as window material.” None of the cited references teach, disclose, or suggest a thin film of Be. KR10-2001-9566, Hirano et al. and Ohmi et al., do not teach, disclose, or suggest, neither alone nor in combination, all of the features of independent Claim 1. Therefore, Claim 1 is patentable over KR10-2001-9566, Hirano et al. and Ohmi et al. Accordingly, withdrawal of the §103(a) rejection of Claim 1 is respectfully requested.

Claims 2-7 and 10-11 are dependent claims, and are believed to be in condition for allowance for at least the reasons given above with regard to their respective independent Claims 1 and 9.

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Accordingly, all of the claims pending in the Application, namely, Claims 1-7 and 9-11 are believed to be in condition for allowance. Should the Examiner believe that a telephone conference or personal interview would facilitate resolution of any remaining matters, the Examiner may contact Applicant's attorney at the number given below.

Respectfully submitted,



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